Attachment A: Specifications/Scope of work
RFQ#19FR6326Q0092
STATEMENT OF WORK FOR

Roofing and Associated Works – U.S. Consulate, Marseille

Location:

Place Varian Fry, 13006 Marseille, France

Client:

Embassy of the United States of America in Paris

Date:

July 31, 2026

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1. PROJECT OVERVIEW:

This project concerns the replacement of the existing roof of 350 square meters, the U.S. Consulate, located at Place Varian Fry, 13006 Marseille, France. The current roof is in a significantly degraded state, compromising the building's integrity and safety. To address these issues and preserve the architectural character of the facility, the project requires the complete replacement of the roof as built, using materials and methods that match the original construction as closely as possible.

Existing aerial view of roof to be replaced from 9 Rue Arméný side

Existing aerial view of roof and courtyard area – courtyard area non accessible to contractor.

2. GENERAL SCOPE REQUIREMENTS

The contractor shall provide all labor, materials, equipment, permits, and supervision necessary to:

- Remove the existing roof covering, battens, flashings, gutters, and associated elements.
- Supply and install new treated rafters, under-roof membrane, corrugated fiber cement sheets, and canal tiles matching the original.
- Replace all ridges, flashings, chimney surrounds, and gutters as specified.
- Replace and install one new roof light and associated structural supports.
- Remove all debris and perform final site cleaning.

3. CONTRACTOR DUE DILIGENCE

3.1. Due diligence includes:

- Conducting thorough site assessments before beginning work to identify risks or challenges.
- Following the COR's instructions and ensuring work aligns with approved plans and specifications.
- Reporting any issues to the COR immediately, the SOW shall be rigorously adhered to.
- Ensuring all materials and methods meet the specified standards or approved equivalents.
- Submitting samples, plans, detailed shop drawings, as-built drawings product literature and progress reports to the COR for OBO review and approval. (See list in 3.1)
- Maintaining compliance with local laws, including obtaining necessary permits and approvals.
- Implementing safety protocols to protect workers and the site.
- If subcontractors are used, they must perform their assigned tasks under the supervision of the contractor and in compliance with the SOW.
- No deviations from the SOW shall be permitted without prior approval from both contracting officer and/or COR
- Preparing and submitting detailed drawings for COR approval including scaffolding installation plan; structural framing details with engineer's calculations; roof light installation details with structural opening; waterproofing and flashing details at all penetrations; roofing installation details; drainage system layout; and telecommunications equipment coordination plan. Drawings shall be submitted per the schedule in Section 4.4 and no work shall commence until approved.

3.2. **Qualibat**: All contractors and subcontractors submitting a quotation for this project must hold current Qualibat certification for each trade category relevant to their scope of works. Qualibat certificates must be valid at the date of submission and must remain valid throughout the duration of the contract. Copies of all relevant Qualibat certificates shall be submitted with the contractor's quotation.

4. HEALTH, SAFETY & SECURITY PROTOCOLS:

4.1. GENERAL SAFETY REQUIREMENTS

The Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs. The Contractor shall comply with all applicable French laws and regulations relating to safety, health, and environmental protection.

The Contractor shall designate a qualified Safety Officer who shall be present on site during all work activities and who has the authority to stop work immediately if unsafe conditions are observed. Safety Officer qualifications shall be submitted for COR approval with the SHEM Plan.

The COR reserves the right to stop work at any time if unsafe conditions exist. No additional compensation or time extension shall be granted for work stoppages due to safety violations.

4.2. SAFETY AND HEALTH ENVIRONMENTAL MANAGEMENT (SHEM) PLAN/ *« PLAN PARTICULIER DE SECURITE ET DE PROTECTION DE LA SANTE (PPSPS) »*

The Contractor shall develop and submit a Plan Particulier de Sécurité et de Protection de la Santé (PPSPS) as required by Article R4532-56 of the French Code du travail, no less than fourteen (14) calendar days prior to mobilization. The PPSPS shall be submitted in both French and English. No work shall commence until the PPSPS is approved by the COR.

Note: The PPSPS is the French legal equivalent of a Safety and Health Environmental Management (SHEM) Plan required by the U.S. Department of State.

The PPSPS shall comply with all requirements of Articles R4532-56 to R4532-60 of the *Code du travail* and shall include the following elements:

A. General Information

- Company identification and contact information
- Project description and location
- Work schedule and duration
- Number of workers and subcontractors

B. Safety Organization

- Organizational chart and safety chain of command
- Safety Officer credentials and 24-hour emergency contacts
- Roles and responsibilities of all personnel

C. Site-Specific Hazard Analysis

- Comprehensive identification of risks specific to the work
- Risk assessment with likelihood and severity

- Prevention measures for each identified risk following the hierarchy of controls:
- Suppression
- Substitution
- Collective protective measures
- Organizational measures
- Individual Protection Equipment (PPE)
- Site photographs and diagrams showing work areas, fall hazards, emergency assembly points, equipment locations, and restricted zones

D. Fall Protection Program

- Hierarchy of controls (guardrails, safety nets, personal fall arrest systems)
- Anchor point locations and certifications (minimum 2,200 kg/22 kN capacity)
- Equipment inspection and maintenance procedures
- Rescue plan for suspended workers (maximum 15-minute rescue time)
- Weather restrictions (no work above 40 km/h wind, on wet surfaces, or during electrical storms)
- Competent person designation and qualifications

E. Training Program

- Required safety training for all workers (fall protection, equipment use, emergency procedures, hazard recognition)
- Training schedule and curriculum
- Documentation requirements (sign-in rosters, test results, certificates)
- Training records for all personnel showing completion of basic, refresher, and specialized training
- Competent person certifications
- Language considerations for multinational crews

F. Emergency Response

- Emergency contacts (SAMU: 15, Pompiers: 18, Police: 17, European: 112)
- Nearest hospital: Nearest appropriate hospital with emergency services *(name, address, route map, and estimated travel time to be identified by Contractor in PPSPS)*
- Evacuation procedures and assembly points
- First aid capabilities (minimum one trained person on site)
- Fire response procedures

G. Environmental Protection

- Waste management and disposal (segregation, licensed contractors, manifests)
- Dust control measures
- Noise mitigation (compliance with local ordinances)
- Stormwater pollution prevention
- Hazardous materials handling (asbestos survey if building pre-1997)

H. Incident Management

- Immediate notification to COR (within 1 hour)
- Written incident reports (within 24 hours)

- Investigation procedures and corrective actions
- Near-miss reporting program

The Contractor shall update the SHEM Plan as conditions change and submit revised plans within 48 hours for COR approval.

4.3. ACTIVITY-SPECIFIC OPERATING PROCEDURES

In addition to the comprehensive risk analysis in the PPSPS, the Contractor shall prepare and submit detailed operating procedures for the following high-risk activities at least forty-eight (48) hours before commencement of each activity. No work on these activities shall begin until the corresponding operating procedure has been approved by the COR.

A) ACTIVITIES REQUIRING OPERATING PROCEDURES

Separate operating procedures shall be prepared for:

- Removal of existing roof tiles, battens, and materials
- Rafter removal and replacement
- Waterproofing membrane installation
- Skylight installation and structural modifications
- Material hoisting operations (if mechanical hoisting equipment is used)
- Hot work activities (if applicable)

**Note: Other activities (site mobilization, flashing installation, gutter installation, site demobilization) may be performed following the procedures specified in the PPSPS without separate operating procedures.*

B) MODE OPÉRATOIRE CONTENT

Each operating procedure shall be a concise document (typically 2-4 pages) providing specific operational details for the activity:

- Activity description, location, and duration
- Step-by-step procedure
- Specific hazards for each step
- Specific control measures for each step
- Required PPE for each step
- Required permits
- Emergency procedures specific to the activity
- Safety Data Sheets for chemical products
- Names and qualifications of workers and supervisor

C) REVIEW AND ACKNOWLEDGMENT

The Contractor shall:

- Review each operating procedure with all affected workers before beginning the activity

- Conduct the review in a language understood by all workers
- Document the review with a sign-in sheet
- Maintain signed acknowledgment forms on site
- Update operating procedures if conditions change
- Submit updated operating procedures to COR for approval before proceeding.

D) MINIMUM HAZARD CONSIDERATIONS

Operating procedures shall specifically address:

For Tile and Roof Material Removal:

- Falls from height during removal operations
- Slips on sloped surfaces and loose materials
- Manual handling injuries
- Dust exposure (potential asbestos or other hazardous materials)
- Structural instability as materials are removed
- Falling objects endangering workers below
- Weather exposure

For Rafter Replacement:

- Structural collapse during removal
- Falls through weakened roof structure
- Power tool injuries
- Temporary shoring requirements
- Weather exposure during structural opening

For Waterproofing Installation:

- Chemical exposure from adhesives and sealants
- Fire risk from hot work equipment
- Slip hazards on membrane surfaces
- Respiratory hazards from chemical vapors
- Confined space conditions in roof valleys

For skylight Installation:

- Structural modifications creating temporary openings
- Falls through roof openings
- Heavy lifting of sky light unit
- Glass handling hazards
- Coordination with structural work

4.4. DOCUMENTATION AND SUBMITTALS

A) REQUIRED DRAWINGS

The Contractor shall prepare and submit the following drawings for COR approval before beginning associated work:

Pre-Construction (14 days before mobilization):

- Scaffolding installation plan (both sides, with structural calculations and safety measures)
- Overall roof plan (layout, drainage, equipment locations)

Construction Details (7 days before associated work):

- Structural framing details with engineer's stamped calculations
- Sky light installation details (structural opening, flashing, waterproofing)
- Waterproofing and flashing details (all penetrations, ridges, chimneys)
- Roofing installation details (fiber cement sheets, canal tiles, fixing)
- Drainage system layout (gutters, downspouts, connections)

All drawings shall be to scale, dimensioned, in French and English, and submitted in PDF format. As-built drawings showing any field changes shall be provided at project completion. No work shall commence until corresponding drawings are approved by the COR.

B) PRE-MOBILIZATION (14 DAYS BEFORE WORK BEGINS)

- Contractor Submit for COR approval:
- Complete PPSPS (in French / English)
- SPS Safety Officer credentials and certifications
- Insurance certificates:
  - Professional Liability Insurance (Assurance Responsabilité Civile Professionnelle)
  - 10-year structural guarantee insurance (Assurance Décennale) mandatory for construction work in France
  - Proof of registration with French social security system (URSSAF) for workers' coverage
- List of all personnel expected on site with:
  - Names and roles
  - Qualifications and certifications
  - Training records (including working at height, scaffolding construction and maintenance, etc.)
  - Language capabilities
- Equipment certifications (scaffolding, fall protection, hoisting equipment) coverage including all necessary Qualibat certificates concerning 1412.

C) ACTIVITY-SPECIFIC (48 HOURS BEFORE EACH HIGH-RISK ACTIVITY)

Contractor shall submit for COR approval:

- Operating procedure for the specific activity
- Safety Data Sheets for any chemical products (Fiches de Données de Sécurité- in French)
- Hot work permits if applicable

D) DAILY INSPECTIONS

Daily safety inspections shall be conducted and documented by the Contractor's Safety Officer. Inspection checklists shall be maintained on site and available for COR review at any time. Weekly summaries of daily inspections shall be submitted to COR.

E) WEEKLY SUBMITTALS

Contractor shall submit for COR approval:

- Weekly comprehensive safety inspection report
- Safety meeting minutes
- Equipment inspection logs
- Summary of incidents or safety issues

F) INCIDENT REPORTS

- Immediate verbal notification to COR (within 1 hour)
- Written incident report (within 24 hours)
- Investigation report with corrective actions (within 72 hours)

G) DOCUMENT COORDINATION

All safety documentation shall be coordinated with and available to:

- Contracting Officer's Representative (COR)
- Regional Security Officer (RSO)
- Consulate Security Personnel
- French labor inspectors upon request

H) TRAINING RECORDS MAINTENANCE AND REVIEW

The Contractor shall maintain complete training records and certificates for all personnel on site. Training records shall include sign-in rosters, test results, certifications, and documentation of basic, refresher, and specialized training. These records shall be part of the administrative files maintained on site and shall be available for review by the COR at any time upon request. The COR has the authority to review contractor training records at any time to verify compliance with safety requirements.

4.5. INSPECTIONS

A) CONTRACTOR INSPECTIONS

The Contractor's Safety Officer shall conduct and document:

- Daily inspections before work begins (fall protection, equipment, work area conditions, PPE, housekeeping)
- Weekly comprehensive inspections (all safety systems, documentation review, compliance metrics)
- Pre-task inspections before each new activity (Operating procedure review, equipment check, weather conditions)
- Equipment inspections: Fall protection (before each use), scaffolding (daily), ladders (before each use), power tools (daily), hoisting equipment (per manufacturer/French regulations)

B) GOVERNMENT INSPECTIONS

The COR reserves the right to conduct unannounced safety inspections at any time. The Contractor shall provide immediate access to all work areas, personnel, and documentation, including all training records and certifications.

C) DEFICIENCY CORRECTION

Deficiencies shall be classified and corrected as follows:

- Critical (imminent danger): Stop work immediately; correct before proceeding
- Major (significant violation): Correct within 24 hours; affected work may not proceed
- Minor (lower risk): Correct within 72 hours; work may continue with monitoring

The Contractor shall maintain a deficiency tracking log submitted to COR weekly.

4.6. REGULATORY COMPLIANCE

Copies of all permits shall be submitted to COR and displayed on site. Work performed without required permits is grounds for termination. All work shall comply with the most stringent of the following requirements:

A) SAFETY STANDARDS

- U.S. Army Corps of Engineers EM 385-1-1
- OSHA Standards (29 CFR 1910 and 1926)
- French Code du travail (Labor Code)
- French Décret n° 2004-924 (work at height)

B) BUILDING STANDARDS

- French Code de la construction et de l'habitation CCH
- DTU standards (40.11, 40.21, 40.5, 43.1)
- Local Marseille regulations (PLU, building permits)
- Department of State OBO standards
- Qualibat certifications, (ref 4.4b) mandatory qualification standard for trade-specific compliance

C) CULTURAL HERITAGE

- French Construction Codes
- French State Heritage Architect in ABF (if in protected zone)
- U.S. Department of State Cultural Heritage requirements

D) ENVIRONMENTAL

- French Environmental Code
- Waste management
- Air and water quality requirements
- Local noise ordinances

E) PERMITS AND AUTHORIZATIONS

The Contractor shall obtain all necessary permits before beginning work:

- Building permit
- Waste disposal contracts with licensed contractors
- Road/sidewalk occupancy permit
- Hot work permits

4.7. COMPLIANCE AND ENFORCEMENT

A) PROGRESSIVE DISCIPLINE

- First violation: Written warning; correct within 24 hours
- Second violation or major violation: Work stoppage until corrected; no time extension or additional compensation

B) CRITICAL SAFETY VIOLATIONS (SUBJECT TO IMMEDIATE WORK STOPPAGE AND POSSIBLE TERMINATION)

- Working at height without required fall protection
- Using damaged or uncertified fall protection equipment
- Failure to barricade fall hazards
- Working under influence of alcohol or drugs
- Willful disregard of safety procedures
- Performing work without approved AHA or required permits
- Any condition posing imminent danger
- Allowing untrained or unqualified workers to perform specialized tasks

C) STOP WORK AUTHORITY

The COR and the Contractor's Safety Officer have authority to stop work immediately if unsafe conditions exist. Any worker has the right to refuse unsafe work without retaliation.

D) REMOVAL OF PERSONNEL

The COR may require immediate removal of any worker who violates safety requirements, poses a danger, or lacks required training or qualifications. The Contractor shall replace removed workers at no additional cost to the Government.

5. WORKING HOURS & ACCESS

See “Due diligence” also: Access for all trades (masonry, carpentry, plumbing, electrical) is strictly limited to approved working hours. The property will be occupied during the works, and the contractor shall take all necessary measures to avoid disturbances and nuisances to occupants. No additional space will be allocated on the ground floor exterior spaces. Materials shall be stored on scaffolding platforms and roof area only. No ground level storage will be permitted. Use of the storage space on the roof and scaffolding will be restricted to loading and fire safety by the contractor.

The working hours should be **from 9:00 to 12:00 and from 13:00 to 17:00 Monday to Friday**. The persons carrying out the work shall be always accompanied by an "escort", who will be provided by the Embassy.

During American and French holidays, the property will be closed. All access and deliveries shall be coordinated around these periods, and any special access request must be requested via the COR representative. This request will not necessarily obtain authorization.

6. SITE PREPARATION & ACCESS SCAFFOLDING REQUIREMENTS

6.1. GENERAL PROVISION

The contractor shall provide and install scaffolding on both sides of the building: the garden side (private property) and the public domain at 9 Rue Armény. The scaffolding must allow for roadside protection and prevent unauthorized access to the scaffolding from the street level at all times, adhering to Qualibat code 1412.

6.2. SPECIFIC REQUIREMENTS FOR 9 RUE ARMÉNY (PUBLIC DOMAIN)

- The contractor must submit a detailed scaffolding and logistics plan for approval prior to the start of work, including drawings, safety measures, and a schedule for installation and removal, adhering to Qualibat code 1412.

- The scaffolding on the Rue Armény side must be designed to accommodate the narrow pavement (approximately 80 cm wide) and the presence of public metal bollards, in conformity with Qualibat code 1412.

- The scaffolding will not be able to be accessed from the street and will only permit the removal of debris from the demolition via a "chute", and the supply of new materials. This design must be considered in the conception and construction of the scaffolding. The worker access and egress to the scaffolding will be controlled and coordinated with the security services, in conformity with Qualibat code 1412.

- The contractor is responsible for obtaining all necessary permits for the installation of scaffolding on public property, including any required temporary removal or adaptation of bollards, and for the occupation of the public right-of-way, and in conformity with Qualibat code 1412.

6.3. DEMOLITION AND REMOVAL

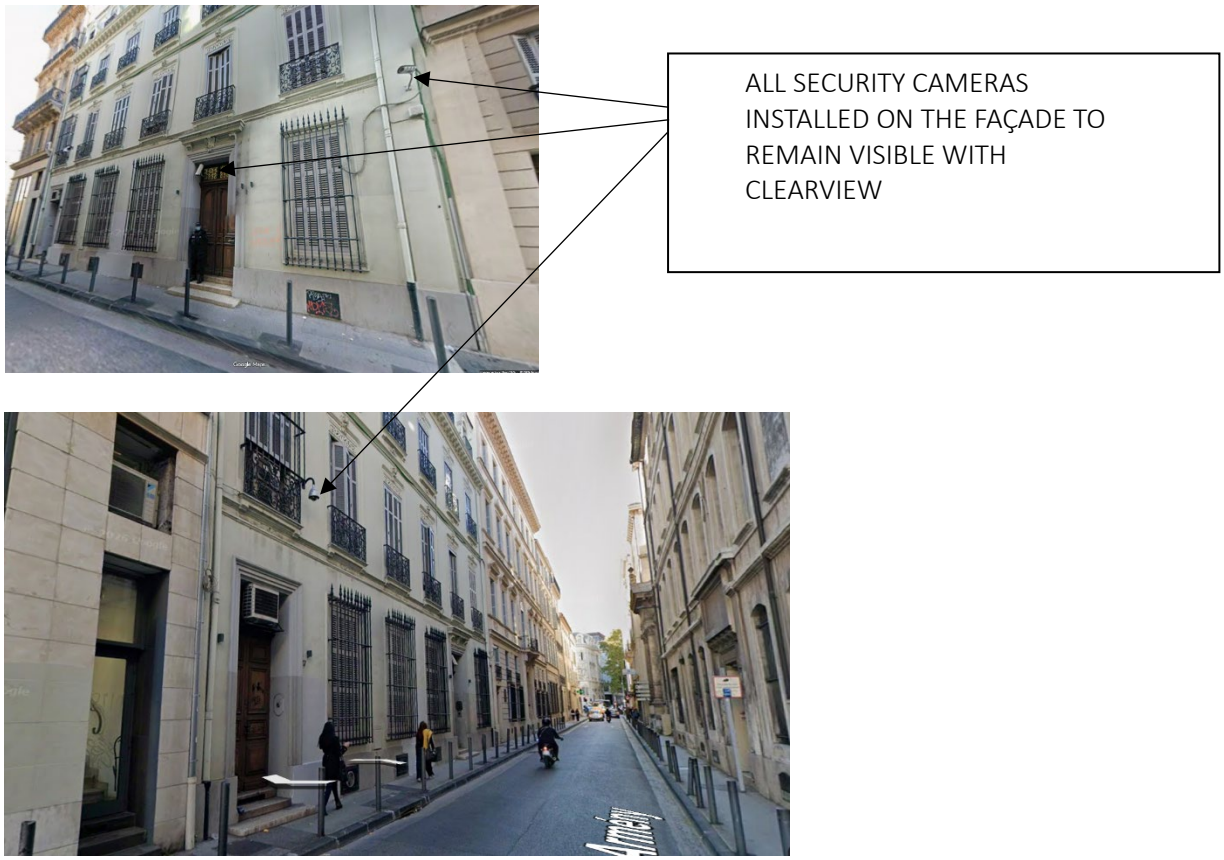
Scaffolding must allow for the safe and efficient evacuation of demolition debris (including roof tiles, battens, flashing, and gutters) via a chute or similar system, with debris collected directly to the vehicle placed on the street at specific hours coordinated with the city of Marseille and be in conformity with Qualibat code 1112.

- The scaffolding must also serve as the delivery point for new roofing materials, with provision for safe hoisting and storage as needed.

- The contractor must obtain all necessary permits to allow for the temporary parking of vehicles required for the delivery and removal of materials and debris. This includes coordination with city authorities for the partial closure of the road and the occupation of public space as needed.
- The contractor is responsible for all coordination with the City of Marseille and any other relevant authorities to ensure compliance with local regulations and to minimize disruption to traffic and pedestrians.
- Coordinating with U.S. Embassy telecommunications services for safe removal and reinstallation of antennas and electrical equipment on the roof. The Contractor shall provide safe access, adequate notice, and flexible scheduling to accommodate telecommunications personnel.

6.4. SECURITY AND SURVEILLANCE

- The scaffolding must be accessible during working hours via a secure ladder and must be secured after hours with an alarm system. The alarm system must be included in the contractor's proposal and coordinated with a qualified subcontractor.
- The contractor must ensure that all security cameras installed on the façade remain visible and operational throughout the project to maintain surveillance of the site. (See photo)



- An alarm service for securing scaffolding is to be included in the solicitation and will be confirmed with the scaffolding subcontractor.

6.5. WEATHER PROTECTION AND RAIN CONTINGENCY MEASURES

Because the existing roof covering must be removed in stages to complete structural, waterproofing, and tiling works, the Contractor shall protect the building, its occupants, interior contents, and the surrounding public area from water infiltration and weather damage throughout all phases of construction.

- Weather Protection Plan

  No less than fourteen (14) calendar days prior to mobilization, the Contractor shall submit a Weather Protection Plan for COR approval describing the methods, materials, and sequencing used to protect open or exposed roof areas.
  The Plan shall identify the Contractor's daily weather-forecasting source (Météo France) and the thresholds that trigger protective action or work suspension.

- Temporary Roof Covering

  The Contractor shall maintain on site, at all times once any portion of the roof covering is removed, sufficient waterproof tarpaulins, shrink-wrap sheeting, or an equivalent temporary roofing system rated for wind and rain exposure.
  No roof structure shall be left without a weathertight temporary covering or completed permanent covering at the end of any working day, or during any period the crew is not actively working — regardless of progress against the schedule.
  Temporary coverings shall be secured to withstand wind gusts of at least 40 km/h (Ref: Section 4.2) and shall be inspected daily and after any weather event before work resumes.

- Interior Protection

  As local security will restrict access to the roof space in the Consular, the Contractor shall consult with the COR and security to make sur interior areas are sufficiently protected during works.

- Scaffolding and Site Drainage

  The Contractor shall install temporary gutters, drip-catch systems, or diversion channels on scaffolding platforms to prevent uncontrolled runoff onto the Rue Armény pedestrian right-of-way or into the courtyard.

- Weather Monitoring and Work Stoppage

  The Contractor shall monitor daily precipitation forecasts and shall halt any activity requiring the roof to remain open (tile removal, rafter work, membrane installation) with sufficient lead time to fully weatherproof exposed areas before rainfall arrives.
  The COR retains stop-work authority whenever forecasted or observed conditions threaten the works or building interior, consistent with Section 4.7(C). No additional compensation or schedule extension shall be granted for stoppages caused by inadequate weather planning.

- Liability for Water Damage

  The Contractor shall bear full responsibility, at no additional cost to the Government, for repair of any interior or exterior damage resulting from water infiltration caused by inadequate temporary weather protection.

7. CONSTRUCTION

7.1. STRUCTURAL WORKS - RAFTERS

- Supply and install new rafters, to respect the minimum dimensions and the existing spacing of the rafters. These rafters will match the existing in strength, load-bearing capacity and dimensions, with a minimum cross section of 100 x 300 mm as verified by structural engineer, conforming to the Qualibat codes of construction 2312 & 2322.

- These shall be made of pressure-treated timber, conforming to EN 14081-1 (European standard for structural timber), and the Qualibat codes of construction 2312 & 2322. Structural calculations are to be verified by the contractor's structural engineer to check loading and wind resistance.

- Timber must be Class 2 or higher for resistance to biological attack, with a minimum cross-section matching the original or as specified by structural calculations and conforming with the Qualibat codes of construction 2312 & 2322. This shall be checked and validated by a structural engineer. This service shall be included in the contract agreed.

7.2. UNDER-ROOF MEMBRANE

Supply and install a high-performance under-roof film, such as Spirtech or equivalent, with minimum water vapor permeability of Sd ≤ 0.02 m and resistance to UV and mechanical damage, Conformity with Qualibat code 3112.

Membrane must be installed with all overlaps sealed using manufacturer-approved adhesive tape, ensuring full coverage and watertightness, conformity with Qualibat code 3112.

7.3. CORRUGATED FIBER CEMENT SHEETS

Supply and install corrugated fiber cement sheets (PST *Flammées* or equivalent), minimum thickness 6.5 mm, fire rating A2-s1, d0 (EN 13501-1) Conformity with Qualibat code 3112.

- Sheets must be securely fixed to rafters using corrosion-resistant fasteners, with overlaps and joints sealed as per manufacturer's instructions.

7.4. CANAL TILES

- Supply and install red canal tiles, using reference **"**Coppo Trafilato 45 Natural Red" (Manufacturer BMI Monier) or equivalent, matching the original profile and color, dimensions (cm): 45 x 18, laid in a straight bond as existing. The tile spacing should be no more than 36cm to allow good overlap and waterproofing. Use the bottom (Concave) Tiles – "*Tuiles de courant*" and the top (Convex)

tiles – "*Tuiles de couvert* » method. At the ridge, special ridge tiles, bedded in mortar, in conformity with Qualibat codes 3111, and the to French building standard NF P 31-201 (DTU 40.22).

- Tiles must be frost-resistant, conforming to EN 1304, and installed using mechanical fixing (galvanized nail) through proprietary hole in tile to structure below, and cement coping.
- Top and tail tiles to be laid in accordance with traditional Marseille roofing methods, ensuring proper water runoff and wind resistance.

7.5. WATERPROOFING AND FLASHINGS

All works in accordance with Qualibat code 3110

- Add to the underside of the replaced ridge tiles a waterproofing roll Metalroll or equivalent, minimum thickness 0.6 mm, pre-painted galvanized steel or aluminum, color to match tiles. This flexible, flashing system will be used to seal the ridge, with butyl bands to adhere to the surface.
- Replace all roof flashings with Wakaflex or equivalent, using butyl fixing bands.

7.6. FLASHINGS:

All works in accordance with Qualibat code 3110

- Replace all roof flashings with Wakaflex or equivalent, minimum width 280 mm, self-adhesive, UV-resistant, and compatible with both tile and masonry surfaces. All flashings must use adhesive butyl strips.
- All joints and penetrations to be sealed with Wakaflex and Wakastrip or equivalent trim for maximum durability.
- Replace all chimney surrounds with Wakaflex or equivalent, including installation of Wakastrip or equivalent trim.

7.7. CHIMNEY AND SKYLIGHT WATERPROOFING

All works in accordance with Qualibat code 3110

- Replace surrounds with Wakaflex or equivalent, ensuring full coverage and integration with roof membrane and tiles.
- Install Wakastrip or equivalent trim for neat finish and additional waterproofing.

7.8. SKYLIGHT & WATERPROOFING:

- Within the new roof rafters, provide a roof opening (chevetre) as required to replace the existing roof access hatch for the window installation.
- Replace all skylight waterproofing with Wakaflex or equivalent, ensuring compatibility with Velux flashing kits.

7.9. GUTTERS AND DRAINAGE

- Gutters: Replace all gutters with new zinc gutters, minimum thickness 0.7 mm, conforming to NF EN 612, ll works in accordance with Qualibat code 3141

- Gutters to be securely fixed with brackets at intervals not exceeding 60 cm, with proper slope for drainage.
- Downpipes: Install new zinc downpipes, diameter and placement to match original, with all joints sealed and connected to existing drainage system.

7.10. ROOF OPENINGS

- All works in accordance with the Qualibat code 3143, and in accordance with Qualibat code 3101
- Roof Window: Supply and install one GPL Confort (Top-hung) MK04, 78 x 98 MK04 with special Velux flashing kit or equivalent.
- Replace and reinforce the existing roof opening (chevetre) as required, reinforcing surrounding structure with treated timber. This is a necessary improvement to allow access to the roof space, as the existing access is limited.
- Ensure window installation is fully integrated with roof membrane and tile system for watertightness.

7.11. REUTILIZATION AND REFIXING OF ELECTRICAL EARTHING CABLE

- The contractor shall carefully remove and retain the existing electrical earthing cable currently fixed to the roof using a Polyisobutylene-type product.
- Upon completion of the new roof installation, the contractor shall refix the earthing cable in the same configuration and location as existing, ensuring it is securely attached to the new roof tiles.
- The method and materials used for refixing shall be equivalent to or better, maintaining the integrity and continuity of the earthing system.
- All work shall comply with applicable electrical and safety standards.

7.12. PROVISION OF ROOF SAFETY EQUIPMENT

- The contractor shall supply and install a permanent lifeline and certified anchor points on the new roof, in accordance with French safety standards and manufacturer recommendations.
- The location and of the lifeline safety equipment shall be determined in consultation with the COR and the Consulate's technical representative to ensure safe access for future maintenance.
- All safety equipment shall be CE-marked and installed by qualified personnel.

7.13. FINISHING AND CLEANUP

- Remove all construction debris from the site.
- Perform a thorough site cleaning upon completion.

8. SCHEDULE:

- Work to commence upon issuance of Notice to Proceed.
- Duration: To be determined in coordination with the contractor. Typical time of 6-8 weeks shall be taken as reference, and increased or reduced according to site, safety and workers facilities installation timeline.

8.1. Inspection and Testing:

Organize COR inspections at specific dates to ensure compliance with the SOW; scaffolding installation and removal, end of demolition, structural framing, roofing, and waterproofing.

9. MAINTENANCE AND LONG-TERM CONSIDERATIONS

9.1. WARRANTIES AND GUARANTEES

The Contractor shall provide warranties and guarantees in accordance with French law and industry standards.

9.1.1. French Legal Warranties

In accordance with the French Code civil, the Contractor shall provide:

9.1.2. 1-Year Completion Warranty

- Covers all defects and non-conformities identified within one year of final acceptance (reception des travaux)
- Includes minor defects, finishing issues, and items noted on the punch list
- Contractor shall correct all defects at no cost to the Government
- Period begins on date of final acceptance

9.1.3. 2-Year Functional Warranty

- Covers equipment and materials that can be removed or replaced without damaging the structure
- Applies to gutters, downspouts, skylights, waterproofing membranes, flashings, permanent safety equipment (lifeline, anchor points)
- Covers defects in materials or installation affecting proper function
- Period begins on date of final acceptance

9.1.4. 10-Year Structural Warranty *(Garantie Décennale)*

- Covers structural defects affecting the building's solidity or making it unsuitable for its intended purpose
- Applies to roof structure (rafters), waterproofing system, structural supports
- Backed by 10-year insurance as required by Articles 1792 to 1792-6 of the Code civil
  Insurance certificate shall be provided at project completion
- Period begins on date of final acceptance

9.1.5. Manufacturer's Warranties

The Contractor shall provide all manufacturer's warranties for materials and equipment, including but not limited to:

- Roof tiles (canal tiles)
- Under-roof membrane
- Corrugated fiber cement sheets
- Waterproofing products (Wakaflex or equivalent)
- Rooflights and skylight and flashing kit
- Gutters and downspouts (zinc)
- Permanent safety equipment (lifeline system, anchor points)
- Any other manufactured products

Manufacturer's warranties shall:

- Be in the manufacturer's standard form
- Include full warranty terms, coverage, exclusions, and claims procedures
- Be provided in French or English

9.1.6. Workmanship Warranty

The Contractor warrants that:

- All work has been performed in a professional and workmanlike manner
- All work complies with this SOW, approved plans and specifications, and applicable codes and standards
- All materials are new, of specified quality, and suitable for their intended purpose
- All work is free from defects in workmanship

The Contractor shall correct any defects in workmanship identified during the warranty periods at no cost to the Government.

9.1.7. Warranty Coverage

Warranties shall specifically cover:

- Structural defects in roof framing
- Roof leaks and water infiltration
- Drainage failures (gutters, downspouts)
- Defects in waterproofing and flashings
- Defects in skylight installation
- Failure of permanent safety equipment
- Material defects and premature failure
- Installation defects affecting performance or durability

9.1.8. Warranty Exclusions

Warranties do not cover damage resulting from:

- Normal wear and tear
- Lack of proper maintenance by the Government
- Modifications or repairs by others not authorized by the Contractor
- Abuse, misuse, or negligence
- Acts of God, extreme weather events beyond design parameters
- Damage caused by third parties

9.1.9. Warranty Documentation

At project completion, the Contractor shall provide:

A) WARRANTY PACKAGE INCLUDING:

- 10-year insurance certificate with policy number
- All manufacturers' warranty certificates and documentation
- Summary of warranty coverage, periods, and contact information
- Warranty claim procedures

B) MAINTENANCE INSTRUCTIONS:

- Recommended maintenance schedule for roof system
- Cleaning and inspection procedures
- Care instructions for specific materials and equipment
- Contact information for maintenance questions

C) AS-BUILT DOCUMENTATION:

- Final drawings showing as-built conditions
- Product specifications and installation details
- Photographs of completed work
- Certifications (structural engineer, safety equipment, etc.)